

EXPERIENCE

IDfy | Senior Software Engineer

Jan'20 - Present (Mumbai)

IDfy is one of Asia's top 5 regtech product companies; has raised more than \$20M in funding

Shared Services

- Built custom authentication layer in user sign-in flow to validate the user with client's token introspection service
- Revamped Rate Limiting Service and boosted the efficiency to allow requests upto a threshold for individual clients
- Introduced hard and default rate limit to avoid huge surge sent by clients and prevent throttling of services
- Maximized performance of API Platform microservices by redesigning internal flows and remodeling caching mechanism
- Decoupled the Document Handler service and reduced timeouts and operating cost by optimizing pod resources
- Worked on Task Management service - designed and implemented the authorization flow
- Conceptualized the end-to-end pipeline for storage on premise - built and deployed the services in the client's on-premise environment
- Speed up the processes by automating workflows using inhouse CLI built on Thor gem in Ruby

Platform

- Contributed to the concept of Multiverse (single and multi tenant) where the entire infrastructure can be deployed to a client's environment
- Expanded the supported cloud providers by deploying the infrastructure to AWS single tenant
- Developed infrastructure in a coded manner (Infrastructure as a Code) using Packer, Terraform and Kustomize
- Coached the migration of Continuous Delivery migration from Gitlab to ArgoCD
- Implemented autoscaling of workloads based on queue depth and other metrics which reduced cost and manual intervention
- Introduced Workload Identity and Cloud SQL Auth Proxy to help reduce the potential "blast radius" of a breach or compromise and management overhead
- Carried out POC on Anthos by creating a cluster in AWS and managing the configurations from GCP
- Shaped monitoring pipelines and alerts across the entire infrastructure using Likerd, Prometheus, VictoriaMetrics, and Grafana
- Built pre-commit hooks and Gitlab pipelines for lint, security and static code analysis
- Hands on experience with K8s - maintained infrastructure and created new resources

Machine Learning

- Built Inhouse generic OCR pipeline using Mask RCNN, CRAFT text detection, Paddle text angle classification, Tesseract OCR and NER text classification
- Improved Liveness model accuracy by from 78% to 97% using Transfer Learning

IDfy | Machine Learning Intern

May'19 - July'19 (Mumbai)

- Built Aadhaar Number Masking Service to mask PII information on Aadhaar Card using Yolo V3 with an accuracy of 98.76% and a TAT of 1.04 sec
- Implemented RabbitMQ message queues, created and maintained Docker containers on GCP clusters

SKILLS

Elixir, Python, Golang, Kubernetes, Docker, RabbitMQ, Packer, Terraform, Terragrunt, Kustomize, ArgoCD, Linkerd, Prometheus, VictoriaMetrics, Grafana, GCP, AWS, PostgreSQL, Tensorflow, OpenCV

PUBLICATIONS

Social Network based Sentiment and Network Analysis to Predict Elections ([link](#))

IEEE | Sep 16, 2020

EDUCATION

B. Tech in Electronics and Communication Engineering

LNMIIT, Jaipur | 2020

LINKS

- LinkedIn: [linkedin.com/in/aakashjhavar](https://www.linkedin.com/in/aakashjhavar)
- Github: github.com/akashjhavar
- Website: aakashjhavar.github.io
- Blogs: aakashjhavar.medium.com